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S1	8	fuzzy and inference and semiconductor and lifetime and fabrication and equipment and @ad<"20040319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 10:22
S2	16	fuzzy and inference and "semiconductor fabrication" and equipment and @ad<"20040319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 10:34
S3	2	"5806056".did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 10:36
S4	4	"remaining lifetime" and semiconductor and fuzzy and @ad<"20040319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 11:28
S5	2	"5778279".did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 11:29
S6	1	399/42 and semiconductor and fuzzy and @ad<"20040319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 11:40
S7	0	399/42 and wafers and fuzzy and @ad<"20040319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 11:41
S8	106	fabrication and lifetime and fuzzy and @ad<"20040319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 11:43
S9	181	manufacturing and lifetime and fuzzy and @ad<"20040319"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 11:47

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## Fuzzy-set approach to select maintenance for multistate equipment

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 This paper appears in: [Reliability, IEEE Transactions on](#)  
 Publication Date: Sept. 1994

Volume: 43, Issue: 3

On page(s): 451 - 456

ISSN: 0018-9529

CODEN: IERQAD

INSPEC Accession Number: 4797435

Digital Object Identifier: 10.1109/24.326445

Posted online: 2002-08-06 19:38:02.0

**Abstract**

Maintenance of any equipment based on its condition is usually a difficult task. The condition of the equipment can be represented using **fuzzy sets**. This paper presents a fuzzy-set model for maintenance policy of multistate equipment. The model is based on two criteria: (a) equipment condition and remaining life, and (b) maximization of the utility function. The model is extended to maintenance planning of the equipment. The results are useful for **replacement decisions** and **inventory control**.

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